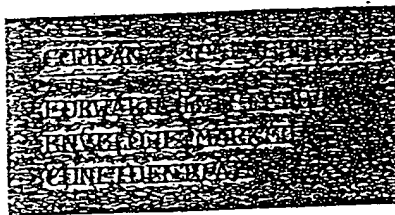


CONFIDENTIAL AND PRIVILEGED INFORMATION

To: PATENT DEPARTMENT
W.R. GRACE & CO.-CONN.
Grace Specialty Chemicals
Lexington, MA 02173



Disclosure No. _____
(leave blank)

Fr: EM&S- Printing Product
Grace Unit or Division

Re: DISCLOSURE OF INVENTION

A. TITLE OF INVENTION No Negative Photo Curable Polymer Plate Through
(brief but descriptive) Laser Ablation.

B. INVENTOR(S)

TYPE/PRINT FULL NAME

CITIZENSHIP

GRACE UNIT

Michael W. Yang

U.S.A.

EM&S

Rustom S. Kanga

India

WRC

(Additional inventors are listed on other side)

C. My/Our invention was conceived (first thought of) on _____, 19 ____.

D. My/Our invention was first disclosed on _____, 19 ____.
John Rastetter
to: Edward Murphy of Printing Prod. orally [x] in writing [] (attach copies).

E. The following details and the earliest date are specified as to whether the invention may have been:

1) Publicly disclosed as by oral presentation or written publication
(Identify audience/recipients if possible by organization and title);

-- The idea was written in Grace notebook on _____, No. 4027, page 71.
-- On _____ meeting with Mr. Terry Feeley, Laser Fare, Inc. in
Atlanta, Georgia.

2) Sold, offered for sale, or used in commercial production (including any
preparatory activity); or

3) Sampled, field tested, or evaluated by third parties outside Grace.
All secrecy agreements in connection with any of the above are noted.

F. Future sampling, testing, evaluation, sale, commercial activity, disclosure, or publication
is XX / is not _____ planned. (If planned, give earliest anticipated date and details).

CONFIDENTIAL AND PRIVILEGED INFORMATION

Page 2 of ___ Pages

- G. **RELATED CASES.** Disclosures, patent searches, or cases now on file or contemplated that closely relate to my/our invention are identified as follows:

See Attachment.

- H. **RELEVANT ART.** Products, processes, compositions, or machines etc. similar to my/our invention and (1) used commercially by others or (2) described in the literature (ie. advertising, patents, specifications, or other publications) are identified (e.g., as by first dates of usage or publication) as follows:

See Attachment.

- I. **SUMMARY OF INVENTION.** Objectives, key elements, novel features, and differences from and advantages over the relevant art (e.g., problems solved) are briefly set forth in a few lines (detail is provided in para. K) as follows:

Photo tool is an essential element to make a photo curable printing plate. Usually a polyester film with Silver Halide deposition is used to make the photo tool, but it is a costly and an environmental concern process. By adding U.V. block reagent in the protection film layer of photo curable plate, it can turn the protection film to a built-in photo tool by laser ablation.

CONFIDENTIAL AND PRIVILEGED INFORMATION

Page 3 of ___ Pages

- J. **RECORDS.** Notebooks, reports, and other documents which substantiate dates on which the invention was conceived are identified as follows (and copies may be attached):

Grace Notebooks 4027, page 71

and Notebook 17021.

- K. **DETAILED DESCRIPTION OF INVENTION**

Sufficiently detailed particulars are herein described (e.g., permissive and preferred operating ranges, temperatures, concentrations, proportions, etc.) to enable those of ordinary skill in the art to duplicate the invention without further experimentation.

Simplified drawings, diagrams, or flow charts (in ink) are provided below where possible. Critical temperatures, concentrations, proportions, or pressures are noted and substantiated where possible by data. Any additional sheets are signed and dated.

A protection film with composition of:

Macromelt 6900	22.75 g
VMP Naphtha	57 g
IPA	120 g
Hexane	62 g
BASF Uvinul D 50	2 g

Coated on ICI Melinex Type 0 by Doctor Blade, the thickness of the film is 0.3 mil. The protection film and cover sheet (Melinex Type 0) was laminated on Flex-Light KOR plate. During the plate image stage, the plate was back exposed first, then peel off the Melinex Type 0 cover sheet and leave the U.V. blocking protection film on the surface of KOR plate. A CO₂ laser gun with digital image program was used to ablate the protection film to produce a photo tool on the KOR surface. The ablated KOR plate can be imaged in U.V. exposure unit without using negative and get a great image quality plate.

CONFIDENTIAL AND PRIVILEGED INFORMATION

Page 4 of ____ Pages

In consideration for my/our employment and in accordance with the terms of my/our employment, I/we hereby offer and assign to my/our employer (W.R. Grace & Co.-Conn. or employer-subsidiary) to the extent permitted by the national laws which apply to me/us as inventor(s), any and all my/our United States and world-wide rights to the invention described hereinabove and entitled

No Negative Photo Curable Polymer Plate Through Laser Ablation

(TITLE OF INVENTION -should be same as in Paragraph A)

I/we authorize said employer or its successor or assignee to apply for patents in any country in its name or in my/our names as deemed necessary and agree to execute all papers necessary for such patent applications.

[Signature]
Inventor Signature Date

Rustum S. Kanga
Inventor Signature Date

Social Security No.

Social Security No.

Residential Address

Residential Address

Inventor Signature Date

Inventor Signature Date

Social Security No.

Social Security No.

Residential Address

Residential Address

USE INDELIBLE INK AND DATE ALL SIGNATURES
FOR ADDITIONAL INVENTORS, COPY THIS PAGE AND ATTACH TO THIS MEMORANDUM

Route Immediately to--

This disclosure was read and
thoroughly understood by me:

Supervisor or Witness Date

Then to--

Filing an application on
this disclosure is approved:

Director, Dept. Head, or Vice. Pres Date

Then send Immediately to Patent Department
in SEALED ENVELOPE marked CONFIDENTIAL